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U. S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b> |   | ATTORNEY'S DOCKET NUMBER<br>29206-00065USPX<br>U.S. APPLICATION NO. (if known, see 37 CFR 1.5)<br><b>10/538705</b> |
| INTERNATIONAL APPLICATION NO.<br>PCT/EP2003/014261  | INTERNATIONAL FILING DATE<br>15 December 2003 | PRIORITY DATE CLAIMED<br>17 December 2002  |
| TITLE OF INVENTION    METHOD AND APPARATUS FOR QUADRATURE MODULATION TECHNICAL FIELD  |   |  |
| APPLICANT(S) FOR DO/EO/US    Robert Bristow   |   |  |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
- ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
- ☒ This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.
- ☒ The US has been elected (Article 31).
- ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
  - ☒ is attached hereto (required only if not communicated by the International Bureau).
  - ☐ has been communicated by the International Bureau.
  - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
- ☐ An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).
  - ☐ is attached hereto.
  - ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
- ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
  - ☐ are attached hereto (required only if not communicated by the International Bureau).
  - ☐ have been communicated by the International Bureau.
  - ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - ☐ have not been made and will not be made.
- ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
- ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
- ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

**Items 11 to 20 below concern document(s) or information included:**

- ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- ☒ A preliminary amendment.
- ☐ An Application Data Sheet under 37 CFR 1.76.
- ☐ A substitute specification.
- ☐ A power of attorney and/or change of address letter.
- ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
- ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
- ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- ☒ Other items or information: Copy of International Search Report, Copy of International Preliminary Examination, and Return Receipt Postcard

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|  |                                     |   |            |   |              |
|--|-------------------------------------|---|------------|---|--------------|
| U.S. APPLICATION NO. (if known, see 37 CFR 1.55)<br><b>10/538705</b>   |                                     | INTERNATIONAL APPLICATION NO.<br>PCT/EP2003/014261                            |            | ATTORNEY'S DOCKET NUMBER<br>29206-00065USPX |              |
| The following fees have been submitted   |                                     |   |            | CALCULATIONS                                | PTO USE ONLY |
| 21.  | <input checked="" type="checkbox"/> | Basic national fee .....  | \$300      | \$ 300.00                                   |              |
| 22.  | <input checked="" type="checkbox"/> | Examination fee   |            |   |              |
| If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4).....  |                                     |   |            | \$100                                       |              |
| All other situations .....   |                                     |   |            | \$200                                       |              |
| 23.  | <input checked="" type="checkbox"/> | Search fee  |            |   |              |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority .....  |                                     |   |            | \$100                                       |              |
| International Search Report prepared and provided to the Office .....  |                                     |   |            | \$400                                       |              |
| All other situations .....   |                                     |   |            | \$500                                       |              |
| <b>TOTAL OF 21, 22 and 23 =</b>  |                                     |   |            | <b>\$ 1,000.00</b>                          |              |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |                                     |   |            |   |              |
| Total Sheets   | Extra sheets                        | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       |   |              |
| - 100 =  | /50 =                               |   | x \$250.00 |   |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).  |                                     |   |            | \$  |              |
| CLAIMS   | NUMBER FILED                        | NUMBER EXTRA  | RATE       |   |              |
| Total claims   | 9 - 20 =                            |   | x          | \$ 0.00                                     |              |
| Independent claims   | 4 - 3 =                             | 1   | x 200.00   | \$ 200.00                                   |              |
| MULTIPLE DEPENDENT CLAIM(s) (if applicable)  |                                     |   |            | \$  |              |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>   |                                     |   |            | <b>\$ 1,200.00</b>                          |              |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.   |                                     |   |            | \$  |              |
| <b>SUBTOTAL =</b>  |                                     |   |            | <b>\$ 1,200.00</b>                          |              |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).   |                                     |   |            | \$  |              |
| <b>TOTAL NATIONAL FEE =</b>  |                                     |   |            | <b>\$ 1,200.00</b>                          |              |
| Fee for recording the enclosed assignment (37 CFR 1.21 (h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |                                     |   |            | \$ 40.00                                    |              |
| <b>TOTAL FEES ENCLOSED =</b>   |                                     |   |            | <b>\$ 1,240.00</b>                          |              |
|  |                                     |   |            | Amount to be refunded:                      | \$           |
|  |                                     |   |            | Amount to be charged:                       | \$           |
| <p>a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1,240.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>10-0447</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.</p> <p><b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the International Application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>Stanley R. Moore<br/>JENKENS &amp; GILCHRIST, A PROFESSIONAL CORPORATION<br/>1445 Ross Avenue, Suite 3200<br/>Dallas, Texas 75202<br/>(214) 855-4713<br/>CUSTOMER NUMBER: 23932</p> <p style="text-align: right;">SIGNATURE: <u>Stanley R. Moore</u><br/>NAME: Stanley R. Moore</p> <p style="text-align: right;">REGISTRATION NUMBER: <u>26,958</u></p> |                                     |   |            |   |              |